

Program Review Materials


CLEANUPS AND CLAIM CLOSURES – DNR PRESENTATION

Enclosed are materials provided by the Department of Natural Resources. Tanks Section Chief Ken Koon and Hazardous Waste Program Manager Steve Sturgess plan to make presentations and/or remarks at the meeting.

The "List of 27 - now 22" old remedial claims is again enclosed, with three columns added by the DNR for its feedback and comments.

In addition, the DNR added three columns of comments for PSTIF claims that were 25 years old as of March 2016; enclosed.


Board action: None requested.

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Tanks Backlog Plan


Ken Koon, Chief
Tanks Section

July 20, 2016

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Strategies for Backlog Reduction

- A. Improving processes on stalled cleanups with responsible parties (RPs)
- B. Provide training
- C. Enhance communication to resolve disagreements
- D. Abandoned site identification

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A. Improving Processes

- Identified 52 sites where MoDNR and PSTIF need to move RP to action
 - MoDNR dedicated one staff to work on these sites
 - 35 sites have restarted, 5 sites received No Further Action (NFA), 9 classified as abandoned, 3 referred to enforcement

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A. Improving Processes (cont.)

- Improve follow up when RP fails to respond (new tracking system)
- 2014/2015 - MoDNR reviewed 487 sites that DNR had not received mail for
 - 44% of sites were not moving
 - Sent out over 500 status letters, increased Letters of Warning and Notices of Violation

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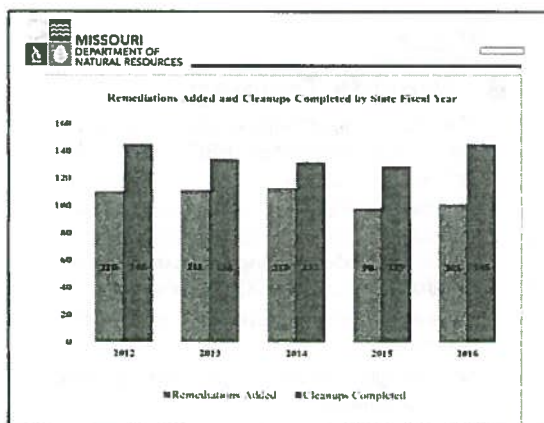
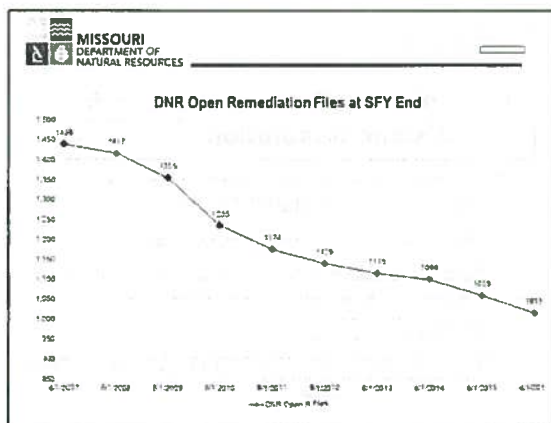
A. Improving Processes (cont.)

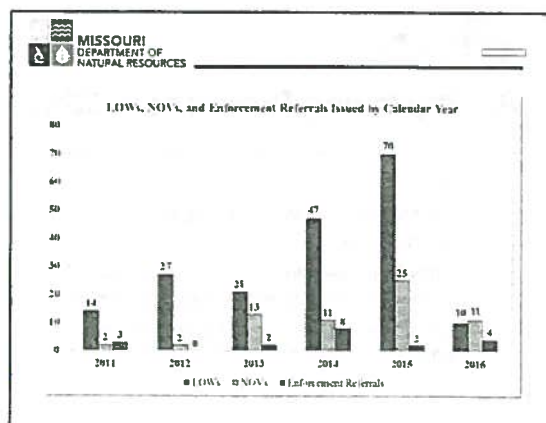
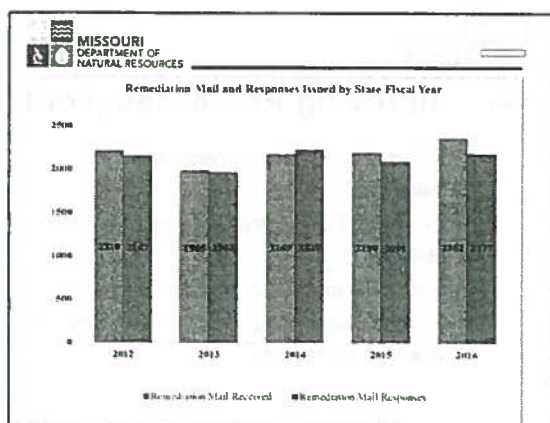
- 2016 – 73 sites not submitting mail for one year
 - All are being worked by MoDNR to gain compliance.
 - Only four sites are idle. These are being reviewed for responsible party determination.
 - Less than one percent (1%) of the sites are idle.

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A. Improving Processes (cont.)

- Number of documents received has increased
- MoDNR/PSTIF communication has increased
- Site visits and meetings have increased
- For State Fiscal Year 2016 the number of NFA's has increased





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B. Provide Training

- Consultants need better guidance on Risk-Based Corrective Action (RBCA) and remediation process
- MoDNR and PSTIF sponsored joint webinars, provided links to other training sources and MoDNR provided training at Missouri Waste Control Coalition (MWCC) Conference
- Have seen some improvements in submitted documents
- Need to figure out how to get more participation from consultants

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C. Enhance Communications for Dispute Resolution

- In the past, sites set idle while MoDNR, PSTIF and consultants disagree
- Tiered dispute resolution process
- Five sites resolved and 15 action plans at Tanks Section Chief and PSTIF Claims Manager
- Eight projects elevated to highest tier and five of those have been resolved

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D. Abandoned Site Identification

- Reviewed files, responsible party search, ability to pay, etc.
- Have identified 190 abandoned sites
- These sites are a lower priority, but MoDNR will continue to explore opportunities to move these sites forward
- RSMo 319.131 – after Dec. 31, 2017, property owner of remedial claim is an RP

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Backlog 2 Plan

- Review 27 PSTIF "pre-existing remedial claims" (i.e., where a release was confirmed before the tanks were insured, the tanks that leaked are still in use and PSTIF benefits will be lost if coverage lapses)

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Backlog 2 Plan

- Four of these sites have closed
- 22 sites are being engaged by MoDNR and the consultants plan to finish ~18 in 2016/2017
- One site has an insolvent RP and is not moving forward

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Future Actions/Backlog Plan

- Focus on timelines and moving sites forward
- Enhance communication and cooperation efforts with Williams and Company
- Seek opportunities to address abandoned sites

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Future Actions/Backlog Plan (cont.)

- Look for ways to increase participation in trainings, offer continuing education credits
- Improve the dispute resolution process
- Need to meet with consultants to discuss resource issues

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Future Actions/Backlog Plan (cont.)

- Enhance enforcement efforts
 - More timely follow up when RP does not move forward
 - Use of Administrative Orders
 - Open to meeting with tank owners, consultants, and PSTIF staff to discuss disagreements but if not able to resolve, then move forward with Attorney General's Office (AGO) referrals

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Free Product Recovery

- 226 sites listed in MoDNR database
- Developed a fact sheet
- Developing a "how to" guidance for Hazardous Waste Program (HWP) Staff
 - Sent out to consultants for comments
 - Comment due back on June 23
 - Will discuss at MWCC Conference
- MoDNR participating in ITRC updates on free product (FP) documents

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Plume Stability

- MoDNR/PSTIF has narrowed down search of experts to two consultants
- MoDNR/PSTIF will interview consultants in August to determine which one to choose
- Scope of the project will be developed during the interviews

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Restrictive Covenants

- Problem – restrictive covenants take time to get through review process
- Potential solution – modify process of review
 - Use the templates with no changes – no review by legal (unless staff have questions)
 - Changes of language require legal review and discussion
 - Improve timeliness of closure of sites

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QUESTIONS?

List of 27 - Now 22 Old Remedial Claims

ST	Claim	Name	City	Occurrence	PSTIF Comments	Site Status / DNR Comments	DNR Comments about PSTIF Involvement	Next Steps
10182	50354	Amoco Oil SS #8551-10370	St. Louis	2/10/1992	Cnsilint concluded NFA req'd in Jan 2016 rpt. DNR review/response 3/10/16 did not indicate whether DNR disagrees with conclusions or not; asked consultant to document conclusions differently. 5/24/16 DNR requested info in prior reports be reformatted and resubmitted.	Original release large. Significant excavation performed. Free product returns intermittently. Needs to be addressed.		Document responded to: 03/30/16. Still need revised LCSM, free product recovery, groundwater monitoring and plume stability.
8533	50067	Wood Oil #30 (formerly FZ Shop #30)	Harrisonville	7/17/1989	Cnsilint concluded NFA. DNR sd no 10/23/15. UST's are 1976-vintage fiberglass, discussed replacement of UST's w/ owner. As of May 2016 he is trying to sell. Contrary to implications in DNR's recent letter, Wood is not RP. PSTIF policy never cancelled; nor was there ever an appeal to the board.	No work performed until 2002. PSTIF policy cancelled. Owner appealed. PSTIF policy reinstated. Site started again in 2009 and has been progressing since then.	PSTIF cancelled policy in 2002. Owner appealed to board. PSTIF policy reinstated.	Groundwater Monitoring and Plume Stability.
7355	50270	Murphy Express #8654 (former Poplar Bluff C-Mart)	Poplar Bluff	7/2/1991	Cnsilint concluded NFA Aug 2015, DNR sd no 12/10/15. "Plume stability" issue. PSTIF pd for more data, cnsilint prepared add'l rpt, submitted 4/4/16. Again concluded NFA. Waiting for DNR response.	Lots of delays due to changes in consultant and changes in property ownership over the years.		Department to review April groundwater monitoring report.
10160	50303	Waltis #0022 (former Amoco Oil SS #5241)	St. Louis	8/15/1991	DNR & cnsilint have very different views. Lengthy DNR ltr sent Feb 2016, requiring lots of add'l data/study. Cnsilint requested mtg with DNR. Mtg held 6/3/16. Cnsilint has plan for completing work and closing the last gwm event completed in June.	Site had multiple releases. Has offsite access issues. May have stream issues. CAP requested but not implemented before MRBCA process.		Need responses to risk assessment review, groundwater monitoring and plume stability. Had meeting on site. Response submitted for review.
13550	50194	Howdersteel Mart (former Convenience Store)	St. Louis	5/14/1990	New owner agreed to finish "cleanup." Cnsilint was supposed to complete work March 2016. rpt received 7/1/16, indicating free product has been recovered to the extent practicable. wtd do one more gwm event, then will request NFA.	No RP. Release being addressed by current property owner. Offsite access issues during most of the time since the release. Free product remains and needs to be addressed. Plume stability still needed.		Free Product Recovery, Revised Risk Assessment, Groundwater Monitoring, Plume Stability.
2364	40156	QuikTrip #150	Oak Grove	10/29/1997	Anticipate cnsilint will conclude NFA April 2016. QT agreed to expedite final tasks so the site can be closed. Hired new consultant in May 2018.	Original release large. Free product recovery performed for several years. Free product recurred in 2015. Further work/evaluation needed for free product.		Free Product Recovery, Revised Risk Assessment, Groundwater Monitoring, Plume Stability.
598	50404	Break Time #3006	Brookfield	6/8/1992	"Plume stability" issue. Cnsilint's January 2016 rpt concluded one more round of data needed.	No work performed from 1991 until 2002. Then, consultant very slow at performing work after that time.		Department to review June groundwater monitoring report.
2756	50137	Gastrip #5 (former Snak-Atak Store #6)	Springfield	5/21/1990	12/2/15 rpt from consultant concluded NFA. DNR sd no. PSTIF agreed to spend \$20k for two more rounds of groundwater data and another rpt. One of two gwm events completed March 2016, second scheduled June 2016, not done yet.	No work performed between 1990 and 2002. Offsite access issues. Slow but steady work performed over time. Last item is plume stability.		Department to review April groundwater monitoring report.
6953	51157	Gas Mart 21 (former Piasa Pantry #3)	West Alton	4/30/1993	Recent flooding delayed final groundwater monitoring event. Samples finally collected March 2016, report rec'd 5/2/16. Recommends add'l sample from 2 wells; if results are positive, will request NFA.	1993-1997 post 1993 flood, is a series of status letters with no action by the RP. 2002-2004 pending the implementation of the MRBCA guidance. 2004 change of consultants from E5 (Environmental Solutions) to CSD. 2004-2008 lots of correspondence no progress. Steep learning curve for consultant.		Performing corrective action rebound monitoring.
10044	50363 (large loss)	Gasmart 22 (former BP 678)	St. Louis	2/19/1992	11/25/15 rpt from cnsilint concluded no risk, only remaining issue is "plume stability" in one well. Part of two gwm events completed, second to be done June 2016. Site sold. DNR 6/5/16 ltr responds to Nov 2015 rpt, subsequent work plan, and April 2016 rpt. Disagrees w/ cnsilint's conclusions. DNR unable to resolve dispute of RP on 6/24/16.	<ul style="list-style-type: none"> Delays due to limited spatial extent (east end of on-site property only) of free product removal activities (ten mobile EFR events) from 1999-2002 despite known extent of FP and high dissolved phase contamination extending to adjacent off-site residential properties. Delays due to property access denial to off-site residence in 2004. Delays due to PSTIF limiting number of soil borings for MRBCA site characterization in 2005. Delays due to water accumulating in many of the soil vapor sampling probes. Delays due to lack of prompt action after 2007 Risk Assessment Report finds exceedances of off-site indoor inhalation pathways at residences; soil vapor sampling not conducted until 2010-2011 and not reported to Dept. until 2012. Delays due to ATC not promptly responding appropriately to off-site owners complaint of sump odors despite Dept. request in Mar. 2013. 	<ul style="list-style-type: none"> Delays from 1995 to 1998 due to PSTIF not approving costs at a time when the Dept. was requiring delineation west of MW-16 and CAP submission by July 1995. Delays due to PSTIF limiting number of soil borings for MRBCA site characterization in 2005. 	Site characterization, revised risk assessment, Free Product Recovery groundwater monitoring, plume stability evaluation.

List of 27 - Now 22 Old Remedial Claims

11108	50949 (large loss)	QuikTrip #176	Kansas City	8/12/1994	Adjacent property owner issues "free product" issues. Cnsntnt's Feb 2016 rpt concludes no risk, only remaining task is add'l monitoring to confirm conclusions. Samples to be collected March 2016. Still waiting for DNR review of Feb 2016 rpt. QF hired new consultant who collected add'l data in May.	Lots of delays due to changes in consultant and changes in property ownership over the years. Site has free product. Vapor complaints from neighbors in 2015. Corrective Action performed to address complaints.	Only one known delay due to disagreement between consultant and PSTIF regarding FP recovery in 2014.	Rebound monitoring, groundwater monitoring, plume stability
10112	50777	Gastrip #4 (former Fastrip #28)	Marshfield	5/31/1994	Cnsntnt concluded no risk July 2015 "plume stability" and "free product" issues in the tank pl. PSTIF has pd for add'l work, best guess is file may be closed mid-2017. Site sold.	Delays due to changes in consultants. No work performed between 2007 and 2014. Free product still remains at site.	Only known PSTIF issue is that actions proposed in 2007 and deemed "not cost effective" proposed by new consultant in 2011 and approved.	Free Product Recovery, Revised Risk Assessment, Groundwater Monitoring, Plume Stability
10116	50249 (large loss)	Bates BP (former Amoco Oil SS #15802)	St. Louis	5/1/1990	DNR sent letter 12/11/15 "Plume stability" and "free product" issues. Cnsntnt was to deliver rpt Jan 2016, as of 7/8/16 not rec'd yet.	Site had a lot of free product. Has been recovering over time. Still need to address remaining free product.	Only known PSTIF issue is with regards to need for LCSM for remaining free product.	Need free product recovery, Plume Stability
2069	50267 (large loss)	Grand BP Gasmart (former Amoco Oil SS #5579)	St. Louis	6/29/1990	"Free product" issue. Cnsntnt conducting transmissivity testing. Cnsntnt, PSTIF, DNR had mtg 4/21/16 agreed on path forward. PSTIF app'd costs 7/6/16 for consultant to do agreed upon tests.	Original release large. Free product recovery occurred over time, but does not appear to have been effective enough. Free product still remains and further recovery using an appropriate method.		Meeting on site April 21, 2016. Addressing Free Product is last item needed.
2689	50175	Waters Auto Centers (former Amoco Oil SS #5598)	St. Louis	9/25/1990	"Free product" issue. Cnsntnt concluded Aug 2015 product recovery was complete. DNR disagreed in Oct 2015. R. PSTIF and cnsntnt agreed to collect current field data, then held mtg w/ DNR 6/3/16 to try and resolve issues. Agreed on plan. PSTIF app'd \$31k in add'l costs in June 2016.	<ul style="list-style-type: none"> No work done at the site between 1992 and 1998. The last action in 1992 was Dept. requesting GW delineation and a CAP. A work plan for GW installation and sampling was finally received in Dec. 1997. Delays due to off-site property access denial in 2007. 	<ul style="list-style-type: none"> Delays due to PSTIF not approving EFR events for active FP recovery. 	Site Characterization, Risk Assessment, Free Product Recovery, Groundwater Monitoring, Plume Stability
12642	50725	City of KC Ruskin Heights Pump Stn	Kansas City	5/1/1993	Cnsntnt concluded NFA January 2015. DNR sd no "plume stability" and "free product" issues. Cnsntnt has collected two more rounds of groundwater data; appears cnsntnt and DNR still have differences. No idea how to satisfy DNR.	Original release large. Free product recovery performed but not aggressively as requested. Free product still recurring at site.		Free Product Recovery, Groundwater Monitoring, Plume Stability
3007540	80034	Convenience Plus	Springfield	3/31/1997	"Free product" issues. Comingling impact from adjacent tank site. Additional site characterization required. Ongoing discussions about next phases of work.	No work performed until 2013-2014 timeframe. Work has been progressing since then.		Site Characterization, Risk Assessment, Free Product Recovery, Groundwater Monitoring, Plume Stability
10179	50338	BP #9032 (former Amoco Oil SS #15013 10496)	St. Louis	10/4/1991	"Free product" issues. Still waiting for DNR review of consultant's Aug 2015 rpt. Cnsntnt has been slow to complete work proposed a year ago; recently agreed to proceed. PSTIF approved costs for baildown testing, etc. 4/12/16.	Site has performed many monitoring events over time. Free product recovery performed, but does not appear to have been effective. Free product still present.		Department to send a response letter.
10486	50416 (large loss)	Casey's Store #1033	Lexington	4/7/1992	Unresolved issue of how to assess risk to nearby intermittent stream. DNR attempting to resolve w/ KKK.	<ul style="list-style-type: none"> Delays due to off site property access denial in 1996. Delays due to limited extent (on site coverage only) of remedial activities (BIOX injection in 2004, and oxygen injection in 2011-2012) despite known extent of contamination extending to adjacent off site property and stream. 	<ul style="list-style-type: none"> Delays due to PSTIF pending review of CAP for BOS* 200 injection dated January 2014; to date, PSTIF has not reviewed costs for this CAP despite Dept. approval in May 2014. Delays due to PSTIF reversing course of action at this site and making independent technical decision in 2014 to oppose position of consultant and Department regarding need for corrective action to address stream protection. Delays due to PSTIF elevating site in dispute resolution process and then pulling it back. Delays due to PSTIF pushing for just two stream sampling events against Department and consultant's position that more comprehensive sampling design is needed to show stream is protected and corrective action is not warranted. 	Stream evaluation, Revised Risk Assessment, Plume Stability
10231	50306 (large loss)	Shell's Service	Maryville	10/30/1989	Cnsntnt concluded best course of action is periodic monitoring of groundwater until tank system is removed. DNR disagreed and wants a more aggressive approach. Unresolved. Three 1580 steel USTs w/ fiberglass inlets. Vapor monitoring is leak detection method. DNR plans to ban in 2020.	Original release large. Corrective Action performed several times, but insufficient to address contamination at site. Site proposes MNA for long term (not acceptable).		Revised corrective action plan
3002085	80300 (large loss)	Shelby's #401	Windsor	10/21/1997	Work was stalled for years; as a result of DNR's recent communications, owner has recently engaged a consultant. PSTIF approved costs for risk asstmt and "plume stability" analysis in April 2016. Work is underway.	Recalcitrant owner required Enforcement to get progress. Settlement Agreement dated 09/15/04. Corrective action performed, but not sufficient. No work performed since 2010 due to PSTIF disagreement regarding DNR requirement for additional corrective action due to vapor intrusion issues.	PSTIF did not agree with Department's requirement for corrective action to address risks caused 5.5 years of delay. Owner refused to do further work because PSTIF wouldn't pay. New target levels in 2013 guidance may make corrective action no longer necessary.	Revised risk assessment, groundwater monitoring, and plume stability
5487	50331	Speedy's Convenience #2	St. Joseph	12/26/1991	Stalled. Store and dispensers recently renovated, current ow has indicated no interest in proceeding with the cleanup.	Original release large. Work performed in 1990s. Ceased in 1995. Referred for Enforcement. Determined to be unable to pay in 2014.		Abandoned Release Site. Site Characterization, Risk Assessment, Plume Stability

>25 yrs old

ST	Claim	Name	City	Occurrence	Site Status / DNR Comments	DNR Comments about PSTIF involvement	Next Steps
3126	50739	King Oil Co	Kansas City	1/1/1984	No work performed between 1995 and 2001 and between 2006 and 2011. Site still has free product		Site currently being redeveloped. Excavation of contamination to be performed during redevelopment. Revised Risk Assessment, Groundwater Monitoring, and Plume Stability still needed.
12419	40646	Mobil 05 LGB	St. Clair	12/20/1985	Current owner not RP. Mobil still trying to address. Contamination in contact with building foundation. Delay due to resistance to do corrective action by both PSTIF and Mobil.	PSTIF doesn't want to perform corrective action, but neither does the RP (Mobil). Current property owner does not want AUL.	Revised risk assessment, groundwater monitoring, and plume stability. Need AUL or corrective action to address remaining risk
12980	50736	Sinclair Retail #24053	St. Clair	3/7/1986	Original release large. Complicated geology. Original release found due to drinking water impact (addressed by replacing wells). Multiple sources with commingled plumes. Constant fighting for years between Sinclair and Amoco.	Sites needed indepth geologic interpretation, but RPs and PSTIF were resistant to working together to get the site to progress for several years.	Currently performing corrective action. Free Product remains
3001972	80047	Fair Grove Service Center	Fair Grove	8/6/1986	Release from ASTs discovered in 1987. Release not addressed until 2000 due to lack of rules. Had impact to drinking water well (addressed in 2000). Still has free product.		Free Product Recovery, Revised Risk Assessment, Groundwater Monitoring, Plume Stability
11459	50320	Percy Oil	Independence	3/3/1988	1. The site work totally stopped for a few years while the site was purchased and included in a major redevelopment (Bass Pro Shop and other shops/restaurants). 2. Then the consultant (Bob Fine) got into trouble (criminal) and was fired and the responsible party had to search for a new consultant. 3. Then the responsible party (Board of Trustees) dissolved and stopped working on the site (the site is now being addressed by the current/new property owner)	There was one obstacle along the way where PSTIF argued with the Department about the need to install off-site monitoring wells. That caused a delay in getting the site characterization activities completed. Site characterization complete.	Groundwater Monitoring and Plume Stability
4708	40887	Ampride	N Kansas City	5/16/1988	Site progressed normally while Fine Env. was consultant. Change in consultants appears to have caused progress to slow. Also complete domestic use pathway issues have caused progress to be slow. Site still has free product.	PSTIF brought this site and others in NKC to management. They do not agree that the domestic use pathway should be complete	Department to review work plan. Still need Free Product Recovery, Groundwater Monitoring, and Plume Stability
12595	50022	QuikTrip #224	Kansas City	7/1/1988	Original release large with corrective action performed. Slow but steady progress until 2006. Unknown delay until 2008. Several different consultants. Free product still remains at site.		Department to review LCSM
10254	50106	Amoco Oil SS #8844	Kansas City	9/1/1988	Original release was large release with limited efforts to address remaining contamination. Offsite access issues.	An apparent delay starting in 2013 as PSTIF/Antea disputed Department's Jan. 2013 letter regarding risk assessment. Risk assessment revisions and subsequent additional data collection requested in January 2013 not proposed until 2016 after we repeated the same comments again in 2015 on their revised risk assessment report	Site characterization, revised risk assessment, groundwater monitoring, plume stability evaluation
11205	50012	Sunburst Energy, Inc	Portageville	9/6/1988	Original release large. Several releases in area. May be commingled. Have been requesting CAP since 2010. Had meeting with PSTIF and consultant to get site moving forward in Dec 2012. Pilot test results approved in March 2013 and request to get plan to move site forward issued. DNR determined Domestic use pathway complete.	PSTIF delays due to trying to show why free product not from this site instead of addressing free product.	Corrective action plan to address free product
12406	50337	Cantrell Automotive Inc	St. Louis	10/1/1988	No major issues at site. Seems to just be a slowly progressing site.		Plume Stability
2662	50132	Sunoco	St. Louis	2/16/1989	Not a large release. Slow progress. Large amount of monitoring early on, but no progress. NFA issued		NFA issued 01/08/16

ST	Claim	Name	City	Occurrence	Site Status / DNR Comments	DNR Comments about PSTIF Involvement	Next Steps
6058	50097	Site Store #361	Raytown	3/1/1989	No work performed between 1992 and 2001, offsite access issues, PSTIF denials	Delays due to numerous invoice issues between ATC and PSTIF, no work was done in 2006 as ATC and PSTIF communicated frequently regarding invoices and payment. ATC was not paid for a FIVE event conducted in 2004 until 2009 following an appeal. Delays due to PSTIF repeatedly rejecting costs for active FP recovery despite multiple Dept. letters requiring active FP recovery, and PSTIF imposing limits on well sampling. Delays due to PSTIF advising ATC against dedication towards Jessica Estates apartment buildings when utility corridor was encountered	site characterization, revised risk assessment, groundwater monitoring, plume stability evaluation
5800270	40546	Truman Road Property	Blue Summit	3/6/1989	Very little work performed to address release. Owner recalcitrant and bankrupt. Release determined to be abandoned.		Abandoned Release Site. Site Characterization, Risk Assessment, Plume Stability
12399	50038	722 LG Mobil Station	Florissant	5/1/1989	Original release large. Corrective action performed in the 1990s. Several consultants. MRBCA transition slow down. Slow and steady progress. Consultant currently being slow.		Department to review work plan
10819	50156	Derby Retail #5863	Columbia	6/1/1989	Site has had multiple releases over the time since the initial release. Releases not addressed aggressively.		Stream evaluation, Revised Risk Assessment, Plume Stability
8439	50111	Wagner's Store	Lonedell	6/1/1989	Site had multiple releases from multiple tank systems. Site still has free product.	No work performed since January 2014 partially due to lack of PSTIF cost approval.	Department to review additional site characterization report.
12989	50170	Sinclair Retail #24	St. Louis	6/5/1989	Original release large. Free product present up until this year. Corrective action performed in the 1990s. Slow but steady work (once document a year). Almost finished. Still need plume stability.		Department to review soil vapor sampling report and revised risk assessment.
10147	50010	Amoco S5 #16738	Kirkwood	8/23/1989	2009 risk assessment shows VI risk due to groundwater contamination. Consultant keeps trying to get soil vapor samples but can't. Will not approve corrective action instead of soil vapor samples.	PSTIF wants soil vapor samples (unable to be collected) instead of corrective action.	Need AUL or corrective action to address remaining risk
7091	50256	Amoco Oil #16634	St. Louis	9/1/1989	Main delays that can be documented are related to offsite access. Most of the time the slowness appears to be related to the consultant or owner		Department approved work plan
3006911	80046	Break Time #3152	Chaffee	10/30/1989	Domestic use pathway complete. No work performed by RP. MFA started work in 2007 as willing remediating party.		Department to request status on revised corrective action plan
13536	50151	Fastrip Store #14	Aurora	4/6/1990	No work performed between 1995 and 2002. Otherwise site progressed normally. Multiple releases.	There is some discussion in the PSTIF database during 2012 concerning payment delays for cost proposal approval. MAES was not submitting documentation requested by the PSTIF	Groundwater Monitoring and Plume Stability
6370	51108	Midway #2	Senath	4/6/1990	Original release large. Corrective action performed in the 1990s and 2000s. Main holdup has been approval of AULs since 2012. Comments sent recently.		AULs need to be filed, plume stability
5800013	50936	Safecare Health Services	Senath	4/6/1990	Original release large. Corrective action performed in the 1990s and 2000s. Main holdup has been approval of AULs since 2012. Comments sent recently.		Plume Stability
8425	50286	Shell Service Station	St. Louis	6/1/1990	Original release large. Stream impact. Corrective Action performed in 1990s and 2000s. Sporadic free product present since corrective action concluded. Still need plume stability once free product recovery complete.		Free Product Recovery, Revised Risk Assessment, Groundwater Monitoring, Plume Stability
4606	50138	Tippins Oil & Gas	Excelsior Springs	6/4/1990	Original release was large release with stream impact and vapors in neighboring building. Emergency abated. RP deceased. Cleanup previously performed by willing property owner. However, current property owner unwilling to continue. Currently not progressing. Release is considered abandoned.		Abandoned Release Site. Risk Assessment, Plume Stability
10429	52796	Ice House #28	Macon	6/27/1990	Old release reopened 04/17/2014. Free product found.		Risk Assessment, Groundwater monitoring, and Plume Stability
11764	50134	Bonne Terre Citgo	Bonne Terre	6/25/1990	Site was slow in progressing, but basically stopped in 2011 due to offsite property owner issues. Contamination impacted offsite well, but negotiations between property owners has been unsuccessful in addressing risks determined in risk assessment. Owner and PSTIF believe that monitored natural attenuation as most desired solution.	PSTIF involved in negotiating monitored natural attenuation	Monitoring for natural attenuation. DNR is preparing a response to 06/07/16 document.
7823	50141	Royal Foods	St. Charles	6/25/1990	No known responsible party. Delay getting site started. Site life extended due to lack of active free product recovery (only passive performed).	PSTIF pended (did not approve or deny) groundwater monitoring costs from 2007 - 2010.	Site characterization, revised risk assessment, Free Product Recovery, groundwater monitoring, plume stability evaluation

ST	Claim	Name	City	Occurrence	Site Status / DNR Comments	DNR Comments about PSTIF involvement	Next Steps
13175	50148	R.C. Enterprise	St. Louis	7/10/1990	Release is considered abandoned.		Abandoned Release Site. Site Characterization, Risk Assessment, Plume Stability
1429	50154	Peculiar 66	Peculiar	7/17/1990	Original release was large. In Enforcement no work performed until 1999. Constant accusations that neighboring site is source that could not be verified. Many delays by consultant, owner, and PSTIF.	Corrective Action proposed several times by the consultant between 2007 and current and approved by the Department. Not implemented. Unclear whether this was a PSTIF or owner issue.	Need revised risk assessment, groundwater monitoring for plume stability, ICSM
10143	50278	Amoco SS #16652	Rock Hill	8/14/1990	Original release large with offsite impact, corrective action performed, and cleanup for residential use.		NFA issued 04/10/15
4545	50196	Raynie Standard	Hermann	9/1/1990	No work performed between 1990 and 2002 due to civil litigation between former property owner, RP, and current property owner. Site has been moving very slowly since then.	Limited delays due to PSTIF partial approvals of scope of work.	Department to review groundwater monitoring report and ICSM.
4742	50163	Total #4413	N Kansas City	9/14/1990	Original release large. Still has free product. Previous corrective actions not effective. Still needs more work.	PSTIF brought this site and others in NKC to management. They do not agree that the domestic use pathway should be complete.	Site characterization, revised risk assessment, Free Product Recovery, groundwater monitoring, plume stability evaluation
746	52195	Former Standard Station	Carrollton	11/16/1990	RP deceased. Release considered abandoned. Work performed using ARRA funds. Current owner does not want any further work performed on the site.		Abandoned Release Site. Site Characterization, Risk Assessment, Plume Stability
688	51183	St. Louis County Police Dept. S1	St. Louis	11/19/1990	Original release large with corrective action performed. Some delay due to the start of the MRBCA process.		Groundwater Monitoring, Stream Risk Evaluation, Plume Stability Evaluation
10840	50197	Former Merle Sharp Station	Marshall	11/20/1990	RP deceased. Release considered abandoned. Work performed using ARRA funds. Current owner is willingly addressing remaining contamination.		Had conference call with owner and prospective buyer. Still need revised RAA and plume stability
6972	50205	Former Otto's 66 Service	West Plains	11/29/1990	Unknown size of historic release from previously closed tanks. RP passed away in 1995. Release is considered abandoned.		Abandoned Release Site. Site Characterization, Risk Assessment, Plume Stability
7230	50232	Campbell's #2	Aurora	1/24/1991	Original release large. A lot of money was spent on excavation. They have a commingled plume with another site. Since there isn't much money left, the work is performed very slowly by the current owners. The RPs are deceased.		Remaining items are free product recovery, evaluating risk to neighboring property, groundwater monitoring and plume stability
3002512	80059	Ozark Souvenirs	Sarcoxie	2/7/1991	No work performed between 1992 and 2007 due to lack of AST regulations. Original release was large release with impact to drinking water. Free product still present. No work performed since 2013 due to PSTIF issues. Owner determined to be unable to pay for UST closure. However, release is AST release with PSTIF claim and deductible paid.	No activity since CAP submission in March 2013 because PSTIF has put a hold on doing any more work to address this AST release until out-of-use, empty USTs are removed according to email and fax communications from Leigh Environmental	LOW in preparation for failure to address AST release since PSTIF eligible and no additional funds are needed to perform this work. Still need corrective action plan to address risks, free product recovery, and plume stability
3338	50217	YRC 326	Kansas City	2/15/1991	Site progressed normally through time. Site has a lot of free product with fill, so no biodegradation.	RP decided to use insitu remediation without PSTIF so site could get closed faster. RP/consultant indicated that waiting for PSTIF approval was taking too long.	Plume Stability
10219	50230	Former Amoco #5033	Kansas City	3/21/1991	Site had large release. Performed cleanup in 1990s. Slow but steady work over years. NFA issued.		NFA issued 04/26/16